

ENVIRON

6001 Shellmound Street, Suite 700, Emeryville, CA 94608

Boring No.: **EW-8**



Project No.: **03-11903E**


Project Name: **Hitachi GST,
San Jose, California**

Date(s): **4/25/2007**

Depth (ft)	Core Interval	Soil Sample Interval	Soil Sample I.D. Number	Graphic Log	Material Description	Well Construction
21					SILTY CLAY (CL), OLIVE BROWN (2.5YR 4/4); moist, low plasticity and toughness (0% gravel, 10% sand, 90% fines).	
22						
23						
24						
25					SANDY SILT (ML), DARK YELLOWISH BROWN (10YR 3/4); moist, very fine to fine sand (0% gravel, 30% sand, 70% fines).	
26						
27					CLAYEY SILT (ML), OLIVE BROWN (2.5Y 4/4); moist (0% gravel, 75% sand, 25% fines).	
28						
29						
30						
31						
32					SILTY SAND (ML/SM), VERY DARK BROWN (2.5YR 3/2); saturated (0% gravel, 60% sand, 40% fines).	
33						
34			EW-8-33.5-34.0			
35						
36					SILTY CLAY (CL), DARK GRAYISH BROWN (2.5Y 4/2); low plasticity with medium toughness by hand roll test (0% gravel, 0% sand, 100% fines).	
37			EW-8-37.0-37.5			
38					End of boring at 37.5 feet bgs.	
39					Extraction well installed 4/25/2007.	
40						
41						
42						
43						
44						
45						
46						

Sample Graphics

 Hand Auger
 No Recovery

 Soil Sample for Physical Testing
 Core Recovery

ENVIRON

6001 Shellmound Street, Suite 700, Emeryville, CA 94608

Boring Number: **EW-9**

Contractor: **Gregg Drilling, Inc.**

Driller: **Sean Rakow**

Project Number: **03-11903E**

Drilling Method: **Hollow Stem Auger**

Location: **San Jose, California**

Rig Type: **CME 95 Hollow Stem Auger Drill Rig**

Project Name: **Hitachi GST**

Sampling Method: **Continuous Core by California Split Spoon**

Date(s): **5/1/2007**

Well Construction Details

Blank Casing (feet):	0 to 17.5	4-inch Sch. 40 PVC
Screen (feet):	17.5 to 37.5	0.020 Slot Sch. 40 PVC
Annular Fill (feet):	0 to 2	Concrete
	2 to 13.5	Bentonite Grout
	13.5 to 15.5	Bentonite Pellets
	15.5 to 38	Monterey Sand # 3

Logged By: **N. Markman**

Checked By: **R. Russell**

GS Elevation: **190.635 ft. MSL**

Northing: **1914258.61**

Easting: **6182458.04**

Total Depth: **38.0 feet**

Borehole Dia.: **10 inches**

Depth (ft)	Core Interval	Soil Sample Interval	Soil Sample I.D. Number	Graphic Log	Material Description	Well Construction
1					GRAVEL (FILL) SILTY CLAY (CL), VERY DARK BROWN (10YR 2/2); moist, low to medium plasticity by hand roll test, (0% gravel, 5% sand, 95% fines).	
2						
3						
4						
5					CLAYEY SILT with sand (ML), DARK YELLOWISH BROWN (10YR 4/6); moist, very fine to fine sand (0% gravel, 20% sand, 80% fines). At 4.5 feet bgs: large roots.	
6						
7						
8					SILTY SAND (SM), DARK YELLOWISH BROWN (10YR 4/4); moist, very fine sand (0% gravel, 65% sand, 35% fines).	
9						
10						
11						
12					CLAYEY SILT (ML), LIGHT OLIVE BROWN (2.5Y 5/3); moist (0% gravel, 10% sand, 90% fines).	
13					SANDY SILT (ML), DARK YELLOWISH BROWN (10YR 4/6); moist, very fine sand (0% gravel, 30% sand, 70% fines). CLAYEY SILT (ML), OLIVE BROWN (2.5YR 4/4); mottled, very fine sand (0% gravel, 5% sand, 95% fines).	
14						
15						
16						
17						
18						
19						

Sample Graphics



Hand Auger



No Recovery



Core Recovery

ENVIRON

6001 Shellmound Street, Suite 700, Emeryville, CA 94608

Boring No.: **EW-9**

Project No.: **03-11903E**

Project Name: **Hitachi GST,
San Jose, California**

Date(s): **5/1/2007**

Depth (ft)	Core Interval	Soil Sample Interval	Soil Sample I.D. Number	Graphic Log	Material Description	Well Construction
21						
22						
23					SANDY SILT (ML), DARK YELLOWISH BROWN (10YR 3/4); moist (0% gravel, 30% sand, 70% fines).	
24						
25						
26					CLAYEY SILT (ML), DARK YELLOWISH BROWN (10YR 3/4); moist (0% gravel, 10% sand, 90% fines).	
27						
28					SILT with sand (SM), DARK YELLOWISH BROWN (10YR 3/4); saturated (0% gravel, 25% sand, 75% fines).	
29						
30					SILTY CLAY (CL), OLIVE BROWN (2.5Y 4/3); moist, variegated staining, low plasticity and toughness by hand roll test (0% gravel, 10% sand, 90% fines).	
31						
32						
33					SAND with silt (SM), VERY DARK BROWN (10YR 2/2); saturated (0% gravel, 90% sand, 10% fines).	
34					From 34.0 feet: grades with increasing sand.	
35						
36					CLAY (CL), DARK GRAYISH BROWN (2.5Y 4/2); low plasticity with medium toughness by hand roll test (0% gravel, 0% sand, 100% fines).	
37						
38						
39					End of boring at 38.0 feet bgs.	
40					Extraction well installed 5/1/2007.	
41						
42						
43						
44						
45						
46						

Sample Graphics



Hand Auger



No Recovery



Core Recovery

<div>ENVIRON</div> <div>6001 Shellmound Street, Suite 700, Emeryville, CA 94608</div>					Boring Number: EW-10								
Contractor: Gregg Drilling, Inc.			Driller: Sean Rakow		Project Number: 03-11903E								
Drilling Method: Hollow Stem Auger					Location: San Jose, California								
Rig Type: CME 95 Hollow Stem Auger Drill Rig					Project Name: Hitachi GST								
Sampling Method: Continuous Core by California Split Spoon					Date(s): 4/26/2007								
<div>Well Construction Details</div> <div>Blank Casing (feet): 0 to 18 4-inch Sch. 40 PVC</div> <div>Screen (feet): 18 to 38 0.020 Slot Sch. 40 PVC</div> <div>Annular Fill (feet): 0 to 2 Concrete</div> <div>2 to 14 Bentonite Grout</div> <div>14 to 16 Bentonite Pellets</div> <div>16 to 38.5 Monterey Sand # 3</div>					Logged By: N. Markman		Checked By: R. Russell						
					GS Elevation: 191.105 ft. MSL								
					Northing: 1914283.03		Easting: 6182483.26						
					Total Depth: 38.5 feet		Borehole Dia.: 10 inches						
Depth (ft)	Core Interval	Soil Sample Interval	Soil Sample I.D. Number	Graphic Log	Material Description					Well Construction			
1					(FILL) CLAYEY SILT (ML), DARK YELLOWISH BROWN (10YR 4/6); moist, low plasticity with medium toughness by hand roll test, trace organics (0% gravel, 10% sand, 90% fines).								
2													
3					At 1.5 feet: large tree roots.								
4													
5													
6					SILTY SAND (ML/SM), LIGHT OLIVE BROWN (2.5Y 5/4); moist, very fine sand, non-plastic fines (0% gravel, 60% sand, 40% fines).								
7													
8			EW-10-8.0-8.5		At 7.0 feet: large tree roots.								
9													
10													
11					SILTY CLAY with sand (CL), GRAYISH BROWN (2.5YR 5/2); moist (0% gravel, 15% sand, 85% fines).								
12													
13													
14					SILTY CLAY (CL), OLIVE BROWN (2.5YR 4/4); moist (0% gravel, 0% sand, 100% fines).								
15													
16			EW-10-16.0-16.5										
17													
18													
19													
<div>Sample Graphics</div> <div><div><div>Hand Auger</div><div>No Recovery</div></div><div><div>Soil Sample for Physical Testing</div><div>Core Recovery</div></div></div>												Page 1 of 2	

ENVIRON

6001 Shellmound Street, Suite 700, Emeryville, CA 94608

Boring No.: **EW-10**

Project No.: **03-11903E**

Project Name: **Hitachi GST,
San Jose, California**

Date(s): **4/26/2007**

Depth (ft)	Core Interval	Soil Sample Interval	Soil Sample I.D. Number	Graphic Log	Material Description	Well Construction
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
41						
42						
43						
44						
45						
46						

Sample Graphics



Hand Auger



Soil Sample for
Physical Testing



No Recovery



Core Recovery

<div>ENVIRON</div> <div>6001 Shellmound Street, Suite 700, Emeryville, CA 94608</div>					Boring Number: EW-11						
Contractor: Gregg Drilling, Inc.			Driller: Sean Rakow		Project Number: 03-11903E						
Drilling Method: Hollow Stem Auger					Location: San Jose, California						
Rig Type: CME 95 Hollow Stem Auger Drill Rig					Project Name: Hitachi GST						
Sampling Method: Continuous Core by California Split Spoon					Date(s): 4/30/2007						
<div>Well Construction Details</div> <div>Blank Casing (feet): 0 to 17 4-inch Sch. 40 PVC</div> <div>Screen (feet): 17 to 37 0.020 Slot Sch. 40 PVC</div> <div>Annular Fill (feet): 0 to 2 Concrete</div> <div> 2 to 13 Bentonite Grout</div> <div> 13 to 15 Bentonite Pellets</div> <div> 15 to 37.5 Monterey Sand # 3</div>					Logged By: N. Markman		Checked By: R. Russell				
					GS Elevation: 191.670 ft. MSL						
					Northing: 1914307.04		Easting: 6182508.81				
					Total Depth: 37.5 feet		Borehole Dia.: 10 inches				
Depth (ft)	Core Interval	Soil Sample Interval	Soil Sample I.D. Number	Graphic Log	Material Description					Well Construction	
1					GRAVEL (FILL)						
2					SILTY CLAY (CL), VERY DARK GRAYISH BROWN (10YR 3/2); hard, moist, trace gravel (0% gravel, 10% sand, 90% fines).						
3											
4											
5					CLAYEY SILT with sand (ML), DARK YELLOWISH BROWN (10YR 4/6); moist, very fine to fine sand (0% gravel, 25% sand, 75% fines).						
6											
7											
8											
9					SANDY SILT (ML/SM), DARK YELLOWISH BROWN (2.5Y 4/6); moist, very fine sand (0% gravel, 40% sand, 60% fines).						
10											
11											
12											
13					CLAYEY SILT (ML), OLIVE BROWN (10YR 4/4); moist, low plasticity and toughness by hand roll test (0% gravel, 10% sand, 90% fines).						
14											
15											
16											
17											
18											
19											
<div>Sample Graphics</div> <div> Hand Auger</div> <div> No Recovery</div> <div> Core Recovery</div>											

ENVIRON

6001 Shellmound Street, Suite 700, Emeryville, CA 94608

Boring No.: **EW-11**

Project No.: **03-11903E**

Project Name: **Hitachi GST,
San Jose, California**

Date(s): **4/30/2007**

Depth (ft)	Core Interval	Soil Sample Interval	Soil Sample I.D. Number	Graphic Log	Material Description	Well Construction
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
41						
42						
43						
44						
45						
46						

Sample Graphics



Hand Auger



No Recovery



Core Recovery

ENVIRON

6001 Shellmound Street, Suite 700, Emeryville, CA 94608

Boring Number: **EW-12**

Contractor: **Gregg Drilling, Inc.**

Driller: **Sean Rakow**

Project Number: **03-11903E**

Drilling Method: **Hollow Stem Auger**

Location: **San Jose, California**

Rig Type: **CME 95 Hollow Stem Auger Drill Rig**

Project Name: **Hitachi GST**

Sampling Method: **Continuous Core by California Split Spoon**

Date(s): **4/23/2007**

Well Construction Details

Blank Casing (feet):	0 to 18	4-inch Sch. 40 PVC
Screen (feet):	18 to 38	0.020 Slot Sch. 40 PVC
Annular Fill (feet):	0 to 2	Concrete
	2 to 14	Bentonite Grout
	14 to 16	Bentonite Pellets
	16 to 38.5	Monterey Sand # 3

Logged By: **N. Markman**

Checked By: **R. Russell**

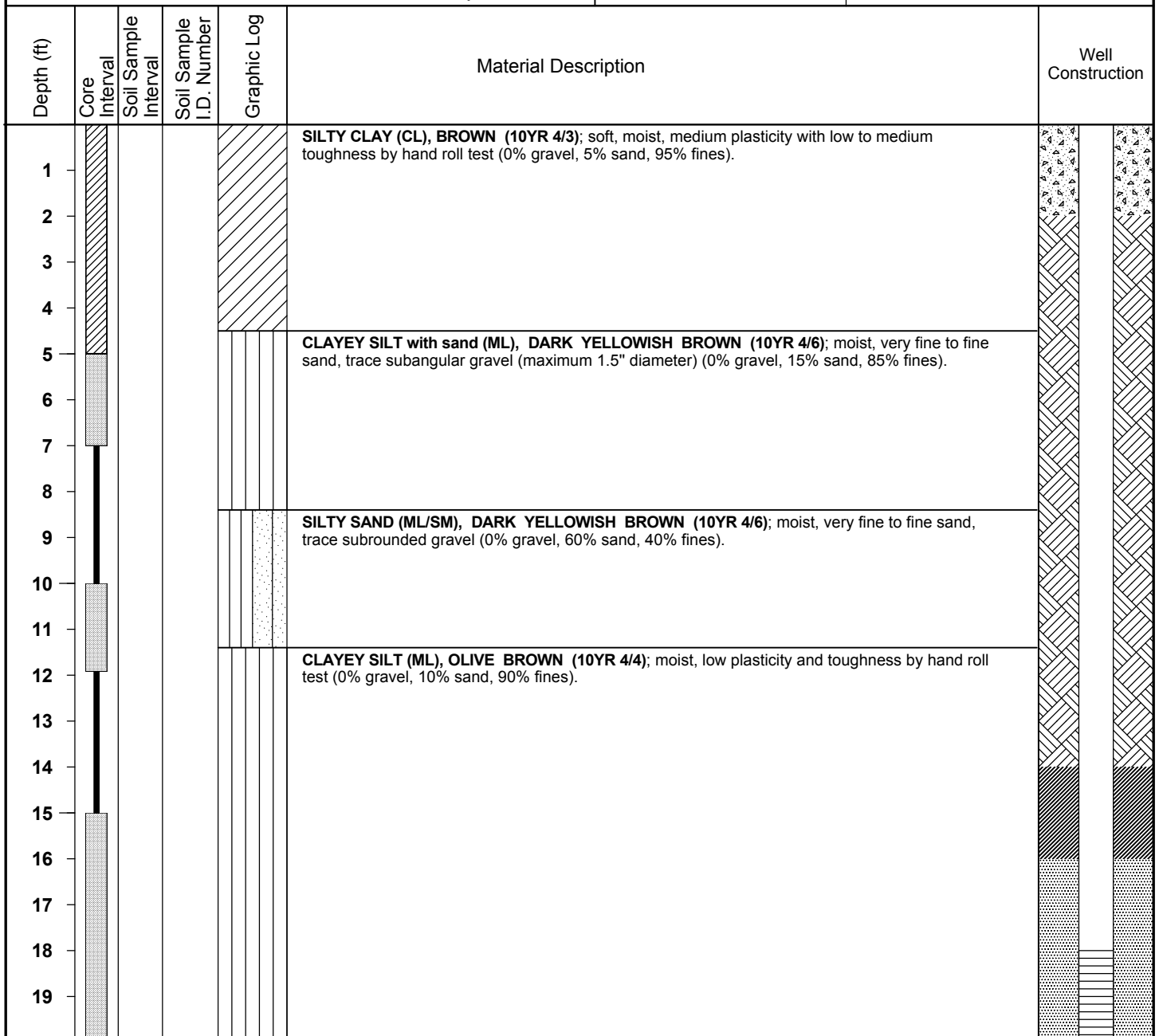
GS Elevation: **190.955 ft. MSL**

Northing: **1914319.47**

Easting: **6182540.83**

Total Depth: **40.0 feet**

Borehole Dia.: **10 inches**



Sample
Graphics



Hand Auger



No Recovery



Core Recovery

ENVIRON

6001 Shellmound Street, Suite 700, Emeryville, CA 94608

Boring No.: **EW-12**

Project No.: **03-11903E**

Project Name: **Hitachi GST,
San Jose, California**

Date(s): **4/23/2007**

Depth (ft)	Core Interval	Soil Sample Interval	Soil Sample I.D. Number	Graphic Log	Material Description	Well Construction
21						
22					SILTY CLAY (CL), OLIVE BROWN (2.5Y 4/4); moist, iron oxide staining, low plasticity and toughness by hand roll test (0% gravel, 5% sand, 95% fines).	
23						
24						
25						
26						
27					SILT with sand (ML), OLIVE BROWN (2.5Y 4/3); saturated (0% gravel, 15% sand, 85% fines).	
28						
29						
30					SILTY CLAY (CL), GRAYISH BROWN (2.5Y 5/2); moist, mottled with olive brown (10 YR 4/3) (0% gravel, 10% sand, 90% fines).	
31						
32						
33					SILTY SAND (SM), VERY DARK BROWN (10YR 2/2); saturated (0% gravel, 85% sand, 15% fines). From 33.5 feet: increasing fines.	
34						
35					SANDY SILT (ML), GRAYISH BROWN (2.5Y 5/2); iron oxide staining (0% gravel, 35% sand, 65% fines).	
36						
37					SILTY CLAY (CL), DARK GRAY (10YR 4/1); moist, iron oxide staining, medium plasticity and toughness by hand roll test (0% gravel, 0% sand, 100% fines).	
38						
39						
40						
41					End of boring at 40.0 feet bgs.	
42					Extraction well installed 4/23/2007.	
43						
44						
45						
46						

Sample Graphics



Hand Auger



No Recovery



Core Recovery

ENVIRON

6001 Shellmound Street, Suite 700, Emeryville, CA 94608

Boring Number: **EW-13**

Contractor: **Gregg Drilling, Inc.**

Driller: **Sean Rakow**

Project Number: **03-11903E**

Drilling Method: **Hollow Stem Auger**

Location: **San Jose, California**

Rig Type: **CME 95 Hollow Stem Auger Drill Rig**

Project Name: **Hitachi GST**

Sampling Method: **Continuous Core by California Split Spoon**

Date(s): **5/1/2007**

Well Construction Details

Blank Casing (feet):	0 to 18	4-inch Sch. 40 PVC
Screen (feet):	18 to 38	0.020 Slot Sch. 40 PVC
Annular Fill (feet):	0 to 2	Concrete
	2 to 14	Bentonite Grout
	14 to 16	Bentonite Pellets
	16 to 38.5	Monterey Sand # 3

Logged By: **N. Markman**

Checked By: **R. Russell**

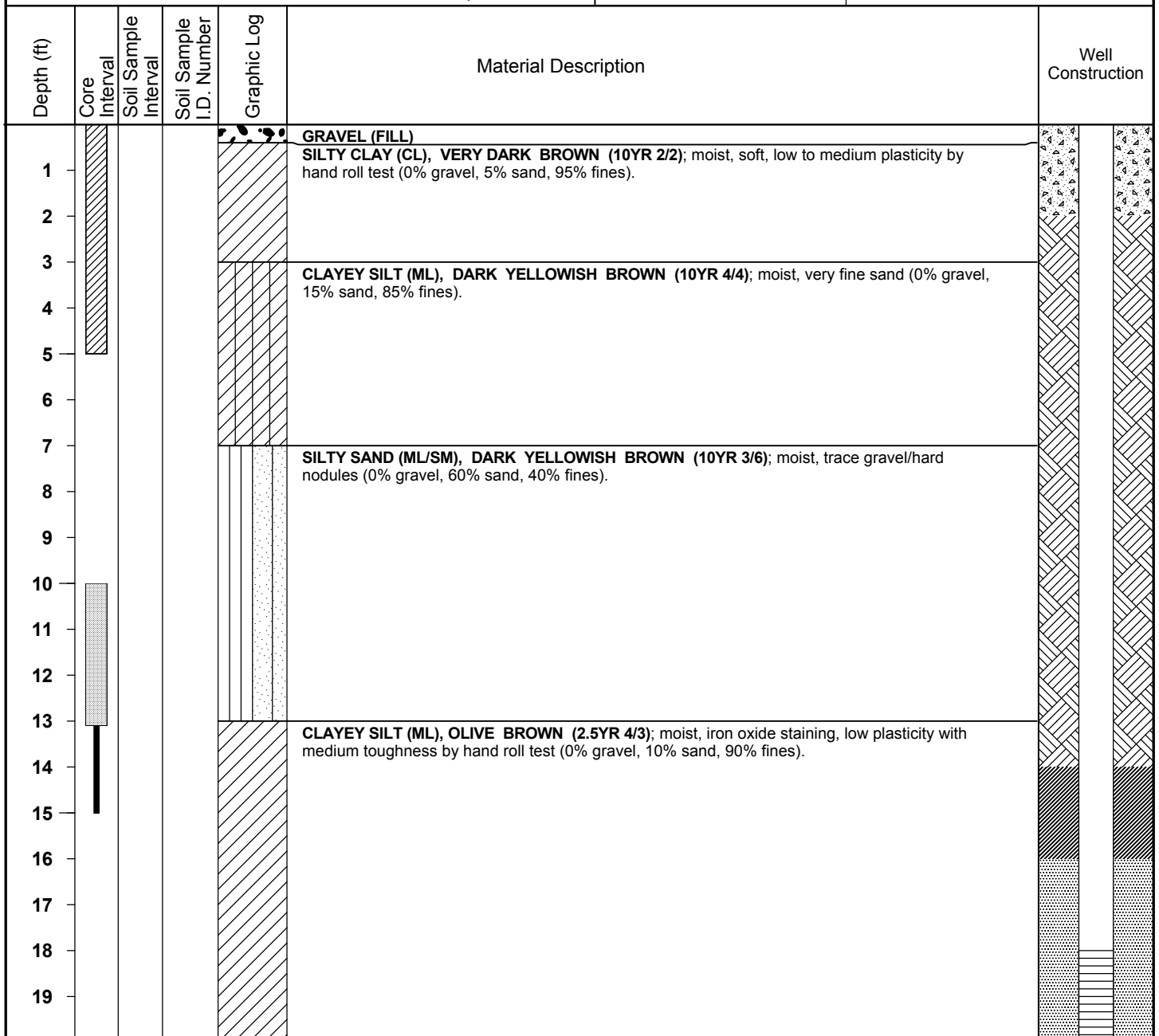
GS Elevation: **192.590 ft. MSL**

Northing: **1914245.64**


Easting: **6182494.66**

Total Depth: **40.0 feet**

Borehole Dia.: **10 inches**



Sample Graphics

 Hand Auger

 No Recovery

 Core Recovery

ENVIRON

6001 Shellmound Street, Suite 700, Emeryville, CA 94608

Boring No.: **EW-13**

Project No.: **03-11903E**

Project Name: **Hitachi GST,
San Jose, California**

Date(s): **5/1/2007**

Depth (ft)	Core Interval	Soil Sample Interval	Soil Sample I.D. Number	Graphic Log	Material Description	Well Construction
21						
22						
23					SANDY SILT (ML), DARK YELLOWISH BROWN (10YR 4/6); moist, variegated coloring, very fine to fine sand (0% gravel, 35% sand, 65% fines).	
24						
25					SILTY CLAY (CL), GRAYISH BROWN (2.5YR 5/2); moist, iron oxide staining, low plasticity with medium toughness by hand roll test (0% gravel, 5% sand, 95% fines).	
26						
27						
28					SILTY SAND (SM), DARK OLIVE BROWN (2.5Y 3/3); moist (0% gravel, 80% sand, 20% fines).	
29						
30						
31						
32					SILT with sand (ML), OLIVE BROWN (2.5Y 4/3); moist (0% gravel, 15% sand, 85% fines).	
33						
34					SAND (SM), VERY DARK BROWN (10YR 2/2); saturated (0% gravel, 90% sand, 10% fines).	
35						
36						
37						
38					SILTY CLAY (CL), GRAYISH BROWN (2.5Y 5/2); low plasticity with medium toughness by hand roll test (0% gravel, 0% sand, 100% fines).	
39						
40						
41					End of boring at 40.0 feet bgs.	
42					Extraction well installed 5/1/2007.	
43						
44						
45						
46						

Sample Graphics



Hand Auger



No Recovery



Core Recovery

ENVIRON

6001 Shellmound Street, Suite 700, Emeryville, CA 94608

Boring Number: **EW-14**

Contractor: **Gregg Drilling, Inc.**

Driller: **Sean Rakow**

Project Number: **03-11903E**

Drilling Method: **Hollow Stem Auger**

Location: **San Jose, California**

Rig Type: **CME 95 Hollow Stem Auger Drill Rig**

Project Name: **Hitachi GST**

Sampling Method: **Continuous Core by California Split Spoon**

Date(s): **4/30/2007**

Well Construction Details

Blank Casing (feet):	0 to 18	4-inch Sch. 40 PVC
Screen (feet):	18 to 38	0.020 Slot Sch. 40 PVC
Annular Fill (feet):	0 to 2	Concrete
	2 to 14	Bentonite Grout
	14 to 16	Bentonite Pellets
	16 to 38.5	Monterey Sand # 3

Logged By: **N. Markman**

Checked By: **R. Russell**

GS Elevation: **192.015 ft. MSL**

Northing: **1914269.80**

Easting: **6182520.28**

Total Depth: **38.5 feet**

Borehole Dia.: **10 inches**

Depth (ft)	Core Interval	Soil Sample Interval	Soil Sample I.D. Number	Graphic Log	Material Description	Well Construction
1					GRAVEL (FILL)	
2					SILTY CLAY (CL), VERY DARK BROWN (10YR 2/2); soft, moist, low to medium plasticity (0% gravel, 10% sand, 90% fines).	
3						
4					At 3.5 feet: plastic debris.	
5					CLAYEY SILT with sand (ML), DARK YELLOWISH BROWN (10YR 4/4); moist, very fine to fine sand (0% gravel, 25% sand, 75% fines).	
6						
7						
8						
9						
10					SILTY SAND (ML/SM), OLIVE BROWN (2.5Y 4/4); moist (0% gravel, 60% sand, 40% fines).	
11						
12						
13						
14					CLAYEY SILT with sand (ML), OLIVE BROWN (2.5YR 4/3); moist, iron oxide staining (0% gravel, 15% sand, 85% fines).	
15						
16						
17						
18						
19						

Sample Graphics



Hand Auger



No Recovery



Core Recovery

ENVIRON

6001 Shellmound Street, Suite 700, Emeryville, CA 94608

Boring No.: **EW-14**

Project No.: **03-11903E**

Project Name: **Hitachi GST,
San Jose, California**

Date(s): **4/30/2007**

Depth (ft)	Core Interval	Soil Sample Interval	Soil Sample I.D. Number	Graphic Log	Material Description	Well Construction
21					SILTY CLAY (CL), DARK GRAYISH BROWN (2.5YR 4/2); soft, moist, iron oxide staining, low plasticity and toughness by hand roll test (0% gravel, 5% sand, 95% fines).	
22						
23						
24						
25						
26					CLAYEY SILT with sand (ML), DARK YELLOWISH BROWN (10YR 3/4); moist (0% gravel, 25% sand, 75% fines).	
27						
28						
29						
30						
31					SILTY CLAY (CL), GRAYISH BROWN (10YR 5/2); moist (0% gravel, 0% sand, 100% fines). From 30.5 - 31.0 feet bgs: saturated.	
32						
33						
34						
35						
36					SAND with silt (SM), VERY DARK BROWN (10YR 2/2); saturated (0% gravel, 90% sand, 10% fines).	
37						
38					SILTY CLAY (CL), DARK GRAYISH BROWN (2.5Y 4/2); low plasticity with medium toughness by hand roll test (0% gravel, 0% sand, 100% fines).	
39						
40					End of boring at 38.5 feet bgs. Extraction well installed 4/30/2007.	
41						
42						
43						
44						
45						
46						

Sample Graphics



Hand Auger



No Recovery



Core Recovery

ENVIRON

6001 Shellmound Street, Suite 700, Emeryville, CA 94608

Boring Number: **EW-15**

Contractor: **Gregg Drilling, Inc.**

Driller: **Sean Rakow**

Project Number: **03-11903E**

Drilling Method: **Hollow Stem Auger**

Location: **San Jose, California**

Rig Type: **CME 95 Hollow Stem Auger Drill Rig**

Project Name: **Hitachi GST**

Sampling Method: **Continuous Core by California Split Spoon**

Date(s): **4/25/2007**

Well Construction Details

Blank Casing (feet):	0 to 18	4-inch Sch. 40 PVC
Screen (feet):	18 to 38	0.020 Slot Sch. 40 PVC
Annular Fill (feet):	0 to 2	Concrete
	2 to 14	Bentonite Grout
	14 to 16	Bentonite Pellets
	16 to 38.5	Monterey Sand # 3

Logged By: **N. Markman**

Checked By: **R. Russell**

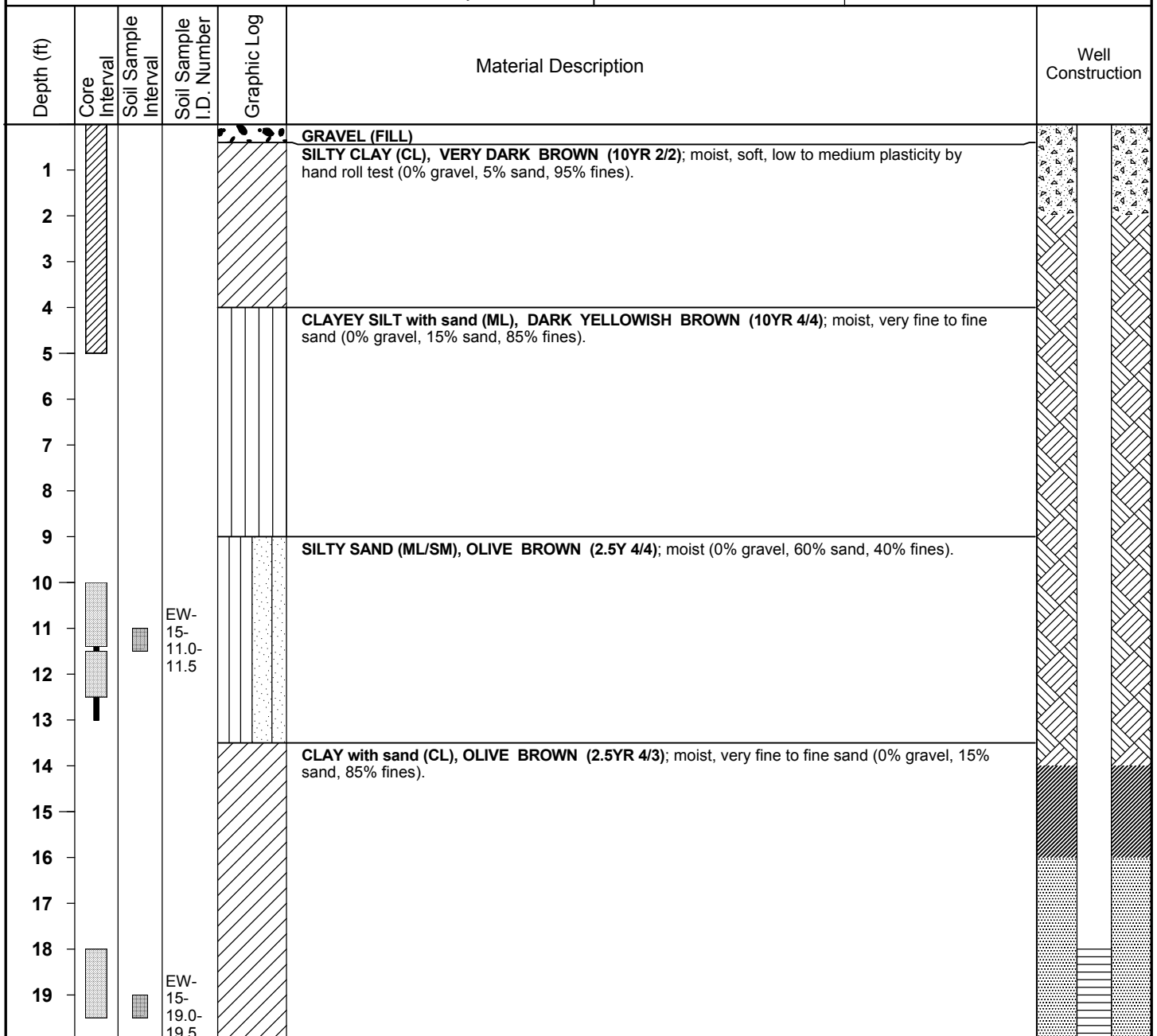
GS Elevation: **191.870 ft. MSL**

Northing: **1914244.27**



Easting: **6182544.55**

Total Depth: **38.5 feet**

Borehole Dia.: **10 inches**



Sample Graphics

 Hand Auger
 No Recovery

 Soil Sample for Physical Testing
 Core Recovery

ENVIRON

6001 Shellmound Street, Suite 700, Emeryville, CA 94608

Boring No.: **EW-15**



Project No.: **03-11903E**

Project Name: **Hitachi GST,
San Jose, California**

Date(s): **4/25/2007**

Depth (ft)	Core Interval	Soil Sample Interval	Soil Sample I.D. Number	Graphic Log	Material Description	Well Construction
21						
22						
23			EW-15-23.0-			
24			23.5		At 23 feet bgs: sand content increases to 20% and grades coarser.	
25						
26						
27						
28						
29					SANDY SILT (ML), OLIVE BROWN (2.5Y 4/4); moist (0% gravel, 30% sand, 70% fines).	
30						
31					CLAYEY SILT (ML), GRAYISH BROWN (2.5Y 5/2); moist (0% gravel, 0% sand, 100% fines).	
32						
33						
34			EW-15-34.5-		SILT (ML), VERY DARK BROWN (10YR 2/2); saturated, non-plastic (0% gravel, 10% sand, 90% fines).	
35			35.0		SAND with silt (SP-SM), VERY DARK BROWN (10YR 2/2); saturated (0% gravel, 90% sand, 10% fines).	
36						
37			EW-15-37.0-		SILTY CLAY (CL), DARK GRAYISH BROWN (2.5Y 4/2); moist, low plasticity with medium toughness by hand roll test (0% gravel, 0% sand, 100% fines).	
38			37.5			
39					End of boring at 38.5 feet bgs.	
40					Extraction well installed 4/25/2007.	
41						
42						
43						
44						
45						
46						

Sample Graphics

 Hand Auger
 No Recovery

 Soil Sample for Physical Testing
 Core Recovery